values of said bulk refractive index, n, and said peak modulation, Δn, being established using well known exposure and processing procedures for said volume phase medium;

whereby the S-polarization diffraction efficiency and the P-polarization diffraction efficiency of said enhanced volume phase grating, when illuminated by an incident beam of said nominal free-space wavelength, λ, at said internal angle of incidence, α, are simultaneously maximized at a common value of the product ΔnT, thereby simultaneously minimizing insertion loss and PDL in a highly dispersive volume phase grating.

Conclusion

With the above amendments, applicant submits that this application is now in full condition for allowance.

Respectfully submitted,

Dated: August 22, 2002

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